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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,983	03/30/2004	Atul Puri	13316-3295	3131
62132 KENYON & K	7590 01/04/201 ENYON LLP	EXAMINER		
1500 K STREE		HOLDER, ANNER N		
SUITE 700 WASHINGTO	N, DC 20005-1257		ART UNIT	PAPER NUMBER
			2483	
			MAIL DATE	DELIVERY MODE
			01/04/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	n No. Applicant(s)				
		10/811,983	PURI ET AL.				
		Examiner	Art Unit				
		ANNER HOLDER	2483				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover shee	et with the correspondence a	address			
WHIC - Exter after - If NC - Failu Any	CRTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING Disions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU 136(a). In no event, however, ma will apply and will expire SIX (6) e, cause the application to become	JNICATION. ay a reply be timely filed MONTHS from the mailing date of this ne ABANDONED (35 U.S.C. § 133).				
Status							
1) 🖂	Responsive to communication(s) filed on 20 C	<u> October 2010</u> .					
2a)🛛	This action is FINAL . 2b) ☐ Thi	s action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4) 🛛	4) Claim(s) 1-35 and 37-53 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) 1-33 and 40-53 is/are allowed.						
6)🛛	6)⊠ Claim(s) <u>34,35 and 37-39</u> is/are rejected.						
· ·	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/o	or election requirement					
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10) ☑ The drawing(s) filed on <u>01 July 2008</u> is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correct	tion is required if the draw	wing(s) is objected to. See 37 (CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	t(s)						
	e of References Cited (PTO-892)		iew Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application							
	Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Response to Argument

1. Applicant's arguments filed 10/20/10 have been fully considered but they are not persuasive. The examiner respectfully disagrees with the applicant's arguments. Honda fairly suggests and teaches the limitations as claimed. Honda discloses a motion picture coding device that performs motion compensation. [¶ 0168; fig. 8] The reference further

discloses skip frames where frames including the motion vectors are deleted from the

video coding chain. [fig. 9; ¶ 0175; ¶0179]

2. Applicant's arguments, see page 17 Claim Rejection - 35 USC 101, filed

10/20/10, with respect to claims 44-47 have been fully considered and are persuasive.

The rejection of claims 44-47 has been withdrawn.

3. Applicant's arguments, see page 17 Interview Summary, filed 10/20/10, with

respect to Claims 40-43 have been fully considered and are persuasive. The rejection

of claims 40-43 has been withdrawn.

Allowable Subject Matter

4. Claims 1-33, 40-53 are allowed.

5. The following is an examiner's statement of reasons for allowance: independent

claims represent the formula as presented in paragraphs 71-74 and 78-80 of pages 16-

18 of the Applicant's specification.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 34, 38 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Yanagihara US 5,374,958 in view of Sugiyama US 6,940,911 B2 further in view of

Honda et al. US 2002/0009139.

8. As to claim 34, Yanagihara teaches a rate controller having an input coupled to a

source of video data and generating a quantizer selection on a picture-by-picture basis,

[Abstract; fig. 11; fig. 14; col. 12 lines 6-9; col. 14 lines 6-8] a video prediction chain to

generate predicted video data on a block-by-block basis, [fig. 11; col. 12 lines 6-9; col.

14 lines 6-8] and a quantizer to receive data output from the transform circuit, the

quantizer operative according to a quantizer parameter output from the rate controller.

[fig. 11; fig. 14; col. 12 lines 6-9; col. 14 lines 6-8]

Yanagihara does not explicitly teach as to a block-based video coding chain including:

a subtractor coupled to the source video data and to the video prediction chain, a

transform circuit, to receive data output from the subtractor.

Sugiyama teaches a block-based video coding chain including: a subtractor coupled to the source video data and to the video prediction chain, a transform circuit, to receive data output from the subtractor. [fig. 1; figs. 6-7; col. 10 lines 52-67; col. 14 lines 42-50; col. 15 lines 1-22]

It would have been obvious to one of ordinary skill in the art at the time the invention was made incorporate the teachings of Sugiyama teaches with the device of Yanagihara to improve image quality and coding efficiency.

Yanagihara (modified by Sugiyama) does not explicitly teach the video coding chain deletes motion vectors under control of the rate controller

Honda teaches the video coding chain deletes motion vectors under control of the rate controller. [fig. 9; ¶ 0175; ¶0179]

It would have been obvious to one ordinary skill in the art at the time the invention was made to incorporate the teachings of Honda with the device of Yanagihara (modified by Sugiyama) allowing for improved image quality. [Honda - ¶ 0013]

- 9. As to claim 38, Yanagihara (modified by Sugiyama and Honda) teaches video prediction chain comprises a prediction mode decision unit whose mode of operation is controlled by the rate controller. [Sugiyama fig. 1; figs. 6-7; fig. 11; fig. 14; col. 10 lines 52-67; col. 14 lines 42-50; col. 15 lines 1-22, 61-67; col. 16 lines 3-7]
- 10. As to claim 39, Yanagihara (modified by Sugiyama and Honda) teaches a video preprocessor that performs picture decimation under control of the rate controller. [Sugiyama Fig. 7; Fig. 11; Fig. 14; Col. 15 lines 10-19, 61-67; Col. 16 lines 3-7]

11. Claim 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanagihara US 5,374,958 in view of Sugiyama US 6,940,911 B2 further in view of Honda et al. US 2002/0009139 further in view of Alattar et al. (Simpson) US 7,567,721.

12. As to claim 35, Yanagihara (modified by Sugiyama and Honda) teaches the limitations of claim 34.

Yanagihara (modified by Sugiyama and Honda) does not explicitly teach the video coding chain further deletes transform coefficients under control of the rate controller.

Alattar teaches the video coding chain further deletes transform coefficients under control of the rate controller [col. 15 lines 22-35]

It would have been obvious to one of ordinary skill in the art to combine the teachings of Alattar with the device of Yanagihara (modified by Sugiyama and Honda) improving coding efficiency and maintaining and/or improving the bit rate.

- 13. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hui US 6,654,417 B1 in view of Sugiyama US 6,940,911 B2 in view of Honda et al. US 2002/0009139 further in view of Tsuru US 6,950,040 B2.
- 14. As to claim 37, Yanagihara (modified by Sugiyama and Honda) teach the limitations of claim 34.

Yanagihara (modified by Sugiyama and Honda) silent as to the video prediction chain comprises a deblocking filter whose mode of operation is controlled by the rate controller

Tsuru teaches the video prediction chain comprises a deblocking filter whose mode of operation is controlled by the rate controller. [fig. 2; col. 1 lines 12-15; col. 6 lines 3-12]

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It would have been obvious at the time the invention was made to combine the

deblocking filtering teachings of Tsuru with the device of Yanagihara (modified by

Sugiyama and Honda) improving image quality.

Conclusion

15. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ANNER HOLDER whose telephone number is

(571)270-1549. The examiner can normally be reached on M-W, M-W 8 am-3 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph Ustaris can be reached on 571-272-7383. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Anner Holder/

Examiner, Art Unit 2483

/Tung Vo/

Primary Examiner, Art Unit 2483